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PATENT  
Application Serial No. 10/830,189  
Attorney Ref. No. 028US2

In the Abstract:

Please replace the section entitled "Abstract of the Disclosure" with the following replacement section:

**Abstract of the Disclosure**

A method of determining relative An electromyography system and related method for performing automated screw test procedures, involving automatically determining an onset neuro-muscular response onset value thresholds for a plurality of spinal nerves, comprising: depolarizing a portion of the patient's cauda equina; and measuring the current intensity level at which a to the application of an electrical stimulus to a portion of pedicular bone and communicating to a user an onset electrical stimulus level which causes the onset neuro-muscular response to the depolarization of the cauda equina is detected in each of the plurality of spinal nerves.

A method for detecting the presence of a nerve adjacent the distal end of at least one probe, comprising: determining relative neuro-muscular response onset values for a plurality of spinal nerves; emitting a stimulus pulse from a probe or surgical tool; detecting neuro-muscular responses to the stimulus pulse in each of the plurality of spinal nerves; and concluding that the electrode disposed on the distal end of the at least one probe is positioned adjacent to a first spinal nerve when the neuro-muscular response detected in the first spinal nerve is detected as a current intensity level less than or equal to a corresponding neuro-muscular response onset value of the first spinal nerve.